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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/016,906 12/14/2001		12/14/2001	Andrew I. Hickson	GB920010074US1	9630	
46320	7590	03/28/2006		EXAMINER		
CHRISTOR	HER &	WEISBERG, PA	WALSH, JOHN B			
200 E. LAS	OLAS BI	.VD				
SUITE 2040			ART UNIT	PAPER NUMBER		
FT LAUDEI	RDALE,	FL 33301	2151			

DATE MAILED: 03/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	plication No		Applicant(s)					
Office Action Summary			0/016,906		HICKSON ET AL.					
			aminer		Art Unit	•				
	v	Jo	hn B. Walsh		2151					
The MAILIN Period for Reply	G DATE of this commun	ication appears	s on the cove	r sheet with the co	orrespondence ad	dress				
WHICHEVER IS Le - Extensions of time may after SIX (6) MONTHS f - If NO period for reply is - Failure to reply within th Any reply received by th	TATUTORY PERIOD F ONGER, FROM THE M be available under the provisions from the mailing date of this common specified above, the maximum st e set or extended period for reply e Office later than three months stment. See 37 CFR 1.704(b).	IAILING DATE of 37 CFR 1.136(a). nunication. atutory period will ap will, by statute, caus	OF THIS CO In no event, how ply and will expire the application	OMMUNICATION ever, may a reply be tim SIX (6) MONTHS from to become ABANDONED	l. ely filed he mailing date of this co D (35 U.S.C. § 133).					
Status										
1) Responsive	to communication(s) file	ed on <i>AF amdt</i>	of 3/3/06.							
2a)☐ This action is		2b)⊠ This acti		al.		•				
<u></u>	plication is in condition	for allowance	except for fo	mal matters, pro	secution as to the	e merits is				
closed in acc	cordance with the practi	ce under Ex pa	arte Quayle,	1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims	6			,						
4)⊠ Claim(s) <u>2-1</u>	<u>6,18-21 and 23</u> is/are p	ending in the a	pplication.							
	4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s)	is/are allowed.									
6)⊠ Claim(s) <u>2-1</u>	· · · 									
7) Claim(s)	Claim(s) is/are objected to.									
8) Claim(s)	are subject to restric	ction and/or ele	ection require	ement.						
Application Papers										
9)☐ The specifica	tion is objected to by th	e Examiner.		•		•				
10) ☐ The drawing(s) filed on is/are	: a)□ accepte	ed or b) ob	jected to by the E	xaminer.					
Applicant may	not request that any obje	ction to the draw	ving(s) be held	l in abeyance. See	37 CFR 1.85(a).					
Replacement	drawing sheet(s) including	the correction is	s required if th	ne drawing(s) is obj	ected to. See 37 Cf	FR 1.121(d).				
11)☐ The oath or d	eclaration is objected to	o by the Exami	ner. Note the	e attached Office	Action or form PT	TO-152.				
Priority under 35 U.S.	.C. § 119					•				
	nent is made of a claim Some * c) None of:	for foreign prio	ority under 35	5 U.S.C. § 119(a)	-(d) or (f).					
1.☐ Certifie	ed copies of the priority	documents ha	ve been rec	eived.	a					
2.☐ Certifie	ed copies of the priority	documents ha	ve been rec	eived in Application	on No					
3.☐ Copies	s of the certified copies	of the priority of	documents h	ave been receive	d in this National	Stage				
	ation from the Internation	· ·								
* See the attach	ed detailed Office action	n for a list of th	ne certified c	opies not receive	đ.					
Attachment(s)										
1) Notice of References	Cited (PTO-892)		4) [Interview Summary (PTO-413)	•				
2) 🔲 Notice of Draftspersor	n's Patent Drawing Review (F		_,	Paper No(s)/Mail Da	te	50)				
3)	e Statement(s) (PTO-1449 or	PTO/SB/08)	5) <u> </u> . 6) <u> </u>	Notice of Informal Pa	atent Application (PTC	J-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 2-16, 18-21 and 23 rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,633,630 to Owens et al.

As concerns claims 2 and 23, a method of communication in a publish/subscribe environment in which publisher programs send messages to subscriber programs via one or more message brokering systems, the method comprising the following steps: responsive to receipt of a published message at a message broker (34), referring to characteristics of the received message and subscriber-specified quality of service requirements to determine an appropriate quality or service for onward transmission of the message (column 10, lines 1-8, column 7, lines 4-5, abstract lines 10-18); selecting a communication protocol in accordance with the determined quality of service (column 9, line 61-column 10, line 1, column 2, lines 24-27); and transmitting the message using the selected communication protocol (column 9, line 61-column 10, line 8); the subscribe-specified quality of service requirements include an indication of whether transactional message delivery is required, and wherein the protocol selecting step comprises selecting a transactional communication protocol at least for

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transactional messages which match subscriptions including said transactional message delivery requirement (column 9, line 61- column 10, line 8, column 10, line 40, column 11, line 66).

As concerns claim 3, a method of communication in a publish/subscribe environment in which publisher programs send messages to subscriber programs via one or more message brokering systems, the method comprising the following steps: responsive to receipt of a published message at a message broker (34), referring to characteristics of the received message and subscriber-specified quality of service requirements to determine an appropriate quality or service for onward transmission of the message (column 10, lines 1-8, column 7, lines 4-5, abstract lines 10-18); selecting a communication protocol in accordance with the determined quality of service (column 9, line 61-column 10, line 1, column 2, lines 24-27); and transmitting the message using the selected communication protocol (column 9, line 61-column 10, line 8); the subscribe-specified quality of service requirements include an indication of whether transactional message delivery is required, and wherein the protocol selecting step comprises selecting a non-transactional communications protocol for messages for which matching subscriptions do not include said transactional message delivery requirement (column 10, lines 28:34).

As concerns claim 4, the protocol selecting step comprises selecting a non-transactional communications protocol for any messages marked as non-persistent and for any messages for which matching subscriptions do not include said transactional message delivery requirement (column 9, line 61- column 10, line 8).

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As concerns claims 5, 18, 20 and 21, a method of communication in a publish/subscribe environment in which publisher programs send messages to subscriber programs via one or more message brokering systems, the method comprising the following steps: responsive to receipt of a published message at a message broker (34), referring to characteristics of the received message and subscriber-specified quality of service requirements to determine an appropriate quality or service for onward transmission of the message (column 10, lines 1-8, column 7, lines 4-5, abstract lines 10-18); selecting a communication protocol in accordance with the determined quality of service (column 9, line 61-column 10, line 1, column 2, lines 24-27); and transmitting the message using the selected communication protocol (column 9, line 61- column 10, line 8); for communication between first and second message brokering systems in a multi-broker network, the first message brokering system is configured to access a repository (column 6, line 7) storing subscriber-specified quality of service requirements for subscriber programs which connect to the broker network/currently connected via the second message brokering system, and wherein the first message brokering system determines a quality of service for the communication by referring to the subscriber-specified quality of service requirements for the subscriber programs which connect/currently connected subset to the broker network via the second message brokering system (column 5, line 60-column 6, line 13).

As concerns claims 6 and 21, wherein the second brokering system sends to the repository aggregate quality of service requirements for the set of subscriber programs which connect to the broker network via the second message brokering system (column 6, lines 4-10).

As concerns claim 7, wherein each brokering system in a multi-broker network sends to its connected message brokering system aggregate quality of service requirements for the set of subscriber programs which are accessible via the brokering system (column 6, lines 4-10).

As concerns claim 8, wherein the second brokering system sends to the repository subscriber-specific quality of service requirements for each subscriber program which connects to the broker network via the second message brokering system (column 6, lines 4-10).

As concerns claim 9, wherein the second brokering system sends to the repository separate quality of service requirements for each of a plurality of different topics or topic groups (column 6, lines 4-10).

As concerns claim 10, the subscribe-specified quality of service requirements include an indication of whether transactional message delivery is required, and wherein the protocol selecting step comprises selecting a non-transactional communications protocol for messages for which matching subscriptions do not include said transactional message delivery requirement (column 10, lines 28-34).

As concerns claims 11 and 19, selecting a non-transactional communications protocol for messages for which matching subscriptions do not include said transactional message delivery requirement (column 10, lines 28-34).

As concerns claims 12 and 16, including applying one or more override policy rules to determine whether to override a specified quality of service when no communication connections are available which provide the specified quality of service (column 10, lines 3-8, no connections available by that provider that will not be listed, thereby overriding the previous list of available connections).

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As concerns claim 13, wherein the override policy rules are message topic specific (column 11, lines 65-67).

As concerns claim 14, the override policy rules are subscriber specific (column 10, line 60).

As concerns claims 15 and 23, wherein the first and second message brokering systems are configured for establishing a plurality of communication connections there between, each connection providing a different quality of service (different based on rules and options established by the user), and wherein the selection of a communication protocol by the first message brokering system includes determining which of the plurality of connections are currently available for sending a message to the second brokering system and selecting a communication protocol provided by a currently available connection in accordance with the determined quality of service (column 10 lines 3-8).

Response to Amendment

3. The finality of the previous action is withdrawn in view of the newly discovered reference.

Allowable Subject Matter

4. The indicated allowability of claims 2-16, 18-21 and 23 is withdrawn in view of the newly discovered reference(s) to Owens et al. Rejections based on the newly cited reference(s) are found above.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Walsh whose telephone number is 571-272-7063. The examiner can normally be reached on Monday-Wednesday from 5:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John B. Walsh Primary Examiner · Art Unit 2151 Page 7